

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	75066	(spin adj bulb or spin adj bubble or ((read\$3 or reproduc\$3) near2 (element or device\$1)) or mr or DOMR or mre or magneto adj2 (resistiv\$3 or resistance\$1) or magnetoresist\$5 or amr or magnetic\$4 adj2 (resistiv\$3 or resistance\$1) or SFSV or SVMR or TuMR\$1 or CMR\$1 or GMR\$1 or spin adj2 valve\$1 or svmr\$1 or tjmr\$1 or tmj\$1 or tmr\$1 or mram\$1 or magnetic adj2 memor\$3 or magnetic adj random adj access adj memor\$3 or DSV or TJM or MTJ or macro adj magnetoresist\$5 or macromagnetoresist\$5 or piggyback or ((composite or combination or merged) adj4 head\$1)).ti,ab,clm. or "360/113" or 360/313-327.33.ccls. or 365/148.ccls. or 338/32\$2.ccls. or 324/207.21.ccls. or 324/252.ccls. or 365/171.ccls. or 365/173.ccls. or 428/811-811.5.ccls. or 148/108.ccls. or 257/295.ccls. or 257/296.ccls. or 257/414.ccls. or 257/421.ccls. or 428/611.ccls. or 438/3.ccls. or g11b005/39.ipc. or g11b005/33.ipc. or g11b005/127.ipc. or "g11b005/39" or "g11b005/33 " or "g11b005/127" or "g11b05/39" or "g11b05/33 " or "g11b05/127" or "g11b5/39" or "g11b5/33 " or "g11b5/127" or "g11b 5/39" or "g11b 5/33 " or "g11b 5/127"	US-PGPUB; USPAT	ADJ	OFF	2007/05/26 16:38
L2	0	((Ferripin\$6 or ferri adj pin\$6 or ruthenium or Ru or ferrimagnet\$5 or ferri adj2 magnet\$5 or antiparallel or anti adj parallel or ((antiferromagnetic or AFM or anti adj ferromagnetic\$5 or exchange) adj2 coupling\$1) or APC or AAF or SyAP or SyAF or SAF or synthetic\$4 adj2 (antiferro or antiferromagnet\$5 or anti adj ferromagnet\$5 or coupling) or artificial adj2 (antiferro or anti adj ferromagnet\$5 or antiferromagnet\$5) or MSSV or SSV or AP1 or AP2 or APC1 or APC2 or AFC or ((reference or keeper) near2 layer\$1)) near "5" free). clm.	US-PGPUB; USPAT	ADJ	OFF	2007/05/26 16:40
L3	2263	((active or central or center or centre) near2 region of portion) or (trackwidth or track adj width)).clm.	US-PGPUB; USPAT	ADJ	OFF	2007/05/26 16:42

## EAST Search History

L4	28721	(Ferripin\$6 or ferri adj pin\$6 or ruthenium or Ru or ferrimagnet\$5 or ferri adj2 magnet\$5 or antiparallel or anti adj parallel or ((antiferromagnetic or AFM or anti adj ferromagnetic\$5 or exchange) adj2 coupling\$1) or APC or AAF or SyAP or SyAF or SAF or synthetic\$4 adj2 (antiferro or antiferromagnet\$5 or anti adj ferromagnet\$5 or coupling) or artificial adj2 (antiferro or anti adj ferromagnet\$5 or antiferromagnet\$5) or MSSV or SSV or AP1 or AP2 or APC1 or APC2 or AFC or ((reference or keeper) near2 layer\$1)).clm.	US-PGPUB; USPAT	ADJ	OFF	2007/05/26 16:41
L5	311	1 and 3 and 4	US-PGPUB; USPAT	ADJ	OFF	2007/05/26 16:41
L6	113	(free near4 (((active or central or center or centre) near2 region of portion) or (trackwidth or track adj width))).clm.	US-PGPUB; USPAT	ADJ	OFF	2007/05/26 16:42
L7	25180	(free near4 (extend\$5 or beyond)).clm.	US-PGPUB; USPAT	ADJ	OFF	2007/05/26 16:42
L8	25277	6 or 7	US-PGPUB; USPAT	ADJ	OFF	2007/05/26 16:42
L9	94	5 and 8	US-PGPUB; USPAT	ADJ	OFF	2007/05/26 16:42